

GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 28, 2002, 17:37.38 ; Search time 305.46 Seconds  
(without alignments)  
243.135 Million cell updates/sec

Title: US-09-502-984B-6  
Perfect score: 1098  
Sequence: 1 KFESKALLAARGPPELLCF.....AEPFGFGFWASWSPVSLTR 211

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 3502263 seqs, 351980561 residues

Total number of hits satisfying chosen parameters: 3502263

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Pending\_Patents\_AA\_Main:\*

- 1: /cgn2\_6/ptodata/2/paa/PCITUS\_COMB.pep:\*
- 2: /cgn2\_6/ptodata/2/paa/US06\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/2/paa/US07\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/2/paa/US081\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/2/paa/US082\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/2/paa/US083\_COMB.pep:\*
- 7: /cgn2\_6/ptodata/2/paa/US084\_COMB.pep:\*
- 8: /cgn2\_6/ptodata/2/paa/US085\_COMB.pep:\*
- 9: /cgn2\_6/ptodata/2/paa/US086\_COMB.pep:\*
- 10: /cgn2\_6/ptodata/2/paa/US087\_COMB.pep:\*
- 11: /cgn2\_6/ptodata/2/paa/US088\_COMB.pep:\*
- 12: /cgn2\_6/ptodata/2/paa/US089\_COMB.pep:\*
- 13: /cgn2\_6/ptodata/2/paa/US090\_COMB.pep:\*
- 14: /cgn2\_6/ptodata/2/paa/US091\_COMB.pep:\*
- 15: /cgn2\_6/ptodata/2/paa/US092\_COMB.pep:\*
- 16: /cgn2\_6/ptodata/2/paa/US093\_COMB.pep:\*
- 17: /cgn2\_6/ptodata/2/paa/US094\_COMB.pep:\*
- 18: /cgn2\_6/ptodata/2/paa/US095\_COMB.pep:\*
- 19: /cgn2\_6/ptodata/2/paa/US096\_COMB.pep:\*
- 20: /cgn2\_6/ptodata/2/paa/US097\_COMB.pep:\*
- 21: /cgn2\_6/ptodata/2/paa/US098\_COMB.pep:\*
- 22: /cgn2\_6/ptodata/2/paa/US099\_COMB.pep:\*
- 23: /cgn2\_6/ptodata/2/paa/US100\_COMB.pep:\*
- 24: /cgn2\_6/ptodata/2/paa/US101\_COMB.pep:\*
- 25: /cgn2\_6/ptodata/2/paa/US102\_COMB.pep:\*
- 26: /cgn2\_6/ptodata/2/paa/US103\_COMB.pep:\*

Pred. No. is the number of results predicted by change to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1098	100.0	211	19	US-09-502-984-6
2	1080	98.4	211	19	US-09-502-984-5
3	1078	98.2	211	19	US-09-502-984-4
4	1075	97.9	211	19	US-09-502-984-9
5	1073	97.7	211	19	US-09-502-984-13
6	1073	97.7	211	19	US-09-502-984-14
7	1073	97.7	211	19	US-09-502-984-15

	8	1070	97.4	211	19	US-09-502-984-7	Sequence 7, Appli
	9	1070	97.4	211	19	US-09-502-984-17	Sequence 17, Appli
	10	1066	97.1	211	19	US-09-502-984-16	Sequence 16, Appli
	11	1064	96.9	211	19	US-09-502-984-11	Sequence 11, Appli
	12	1061	96.6	211	19	US-09-502-984-12	Sequence 12, Appli
	13	1060	96.5	211	19	US-09-502-984-2	Sequence 2, Appli
	14	1060	96.5	211	19	US-09-502-984-10	Sequence 10, Appli
	15	1060	96.5	225	19	US-09-502-984-1	Sequence 1, Appli
	16	1060	96.5	438	17	US-09-339-838-5	Sequence 5, Appli
	17	1060	96.5	488	8	US-08-474-673-2	Sequence 2, Appli
	18	1060	96.5	488	13	US-08-960-733-2	Sequence 2, Appli
	19	1059.5	96.5	212	19	US-09-502-984-3	Sequence 3, Appli
	20	1057	96.3	220	18	US-09-452-565-6	Sequence 6, Appli
	21	1057	96.3	268	18	US-09-452-565-3	Sequence 3, Appli
	22	1057	96.3	676	18	US-09-452-565-1	Sequence 1, Appli
	23	1053	95.9	211	19	US-09-502-984-8	Sequence 8, Appli
	24	1053	95.9	508	14	US-09-016-159-5	Sequence 5, Appli
	25	1053	95.9	508	14	US-09-058-429-5	Sequence 5, Appli
	26	1052	95.8	438	17	US-09-339-838-7	Sequence 7, Appli
	27	1048	95.4	211	19	US-09-502-984-18	Sequence 18, Appli
	28	1039	94.6	211	19	US-09-502-984-19	Sequence 19, Appli
	29	1034	94.2	211	19	US-09-502-984-20	Sequence 20, Appli
	30	1025	93.4	211	19	US-09-502-984-21	Sequence 21, Appli
	31	1025	93.4	211	19	US-09-502-984-24	Sequence 24, Appli
	32	1024	93.3	211	19	US-09-502-984-25	Sequence 25, Appli
	33	1022	93.1	211	19	US-09-502-984-23	Sequence 23, Appli
	34	1020	92.9	211	19	US-09-502-984-22	Sequence 22, Appli
	35	1020	92.9	211	19	US-09-502-984-26	Sequence 26, Appli
	36	1019	92.8	211	19	US-09-502-984-28	Sequence 28, Appli
	37	1009	91.9	211	19	US-09-502-984-27	Sequence 27, Appli
	38	997	90.8	211	19	US-09-502-984-29	Sequence 29, Appli
	39	473	43.1	165	1	PCT-US01-14827-13860	Sequence 13860, A
	40	394	35.9	80	26	US-60-160-202-3517	Sequence 3517, Ap
	41	260	23.7	53	26	US-60-160-202-4200	Sequence 4200, Ap
	42	240	21.9	54	26	US-60-160-202-4419	Sequence 2419, Ap
	43	173	15.8	50	26	US-60-182-094-1197	Sequence 1197, Ap
	44	168	15.3	56	21	US-09-757-027-110	Sequence 710, App
	45	167.5	15.3	117	16	US-09-206-647-3	Sequence 3, Appli

#### ALIGNMENTS

RESULT 1

US-09-502-984-6

Sequence 6, Application US/09502984

GENERAL INFORMATION:

APPLICANT: Luo, Peizhi

TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY

FILE REFERENCE: A-68126-1/RET/RMS/RWK

CURRENT APPLICATION NUMBER: US/09/502, 984

CURRENT FILING DATE: 2000-02-11

PRIOR APPLICATION NUMBER: 60/120, 009

PRIOR FILING DATE: 1999-02-11

PRIOR APPLICATION NUMBER: 60/131, 674

PRIOR FILING DATE: 1999-04-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 6

LENGTH: 211

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC

US-09-502-984-6

Query Match 100.0%; Score 1098; DB 19; Length 211;  
Best Local Similarity 100.0%; Pred. No. 2,6e-112;  
Matches 211; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFESKALLAARGPPELLCFTRLEDVCFEASAGVGPNFSPFQLEDEPMKLCRL 60  
|||||

```
Db 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Qy 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Db 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Qy 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Db 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Qy 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211
Db 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211

RESULT 2
US-09-502-984-5
; Sequence 5, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 5
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-5

Query Match 98.4%; Score 1080; DB 19; Length 211;
Best Local Similarity 97.2%; Pred. No. 2,6e-110;
Matches 205; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Db 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Qy 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Db 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Qy 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Db 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Qy 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211
Db 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211

RESULT 3
US-09-502-984-4
; Sequence 4, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
```

```
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 4
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-4

Query Match 98.2%; Score 1078; DB 19; Length 211;
Best Local Similarity 96.7%; Pred. No. 4.3e-110;
Matches 204; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Db 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Qy 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Db 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Qy 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Db 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Qy 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211
Db 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211

RESULT 4
US-09-502-984-9
; Sequence 9, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 9
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-9

Query Match 97.9%; Score 1075; DB 19; Length 211;
Best Local Similarity 96.2%; Pred. No. 9.1e-110;
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Db 1 KESKALLAARGPEELCTERLEDVCFEEAASAGVPGNFSFQLEDEPMKLCRL 60
Qy 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Db 61 HOAPTARGAIRFMCSLPTADTSSFPVLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
Qy 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Db 121 RLADSGHVYIRMLPPETPMTSHIRELDSAGNGAGSVQVRELLEGRTCVLSNLGR 180
Qy 181 TRITIAVARMABEPSFGGFWMSAMSEPVSLLT 211
```

Db 181 TRTYFAVRAMAEPSFGFMSAMSEPSVSLT 211

## RESULT 5

US-09-502-984-13  
; Sequence 13, Application US/09502984  
; GENERAL INFORMATION:  
; APPLICANT: Luo, Peizhi  
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
; FILE REFERENCE: A-68126-1/RT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/502,984  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: 60/120,009  
; PRIOR FILING DATE: 1999-02-11  
; PRIOR APPLICATION NUMBER: 60/131,674  
; PRIOR FILING DATE: 1999-04-29  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 211  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-13

Query Match 97.7%; Score 1073; DB 19; Length 211;  
Best Local Similarity 96.2%; Pred. No. 1.5e-109;  
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 KESKAALLAARPEELCTERLEDVCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60  
Db 1 KESKAALLAARPEELCTERLEDVCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60  
QY 61 HQAPTAGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120  
Db 61 HQAPTAGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120  
QY 121 RLADSGHVYIRLPPPEPMTSHIRFELDISGNAGSVQVRELLEGRTCYLSNLGR 180  
Db 121 RLADSGHVYIRLPPPEPMTSHIRFELDISGNAGSVQVRELLEGRTCYLSNLGR 180  
QY 181 TRITIVARAMAEPSFGFMSAMSEPSVSLT 211  
Db 181 TRITIVARAMAEPSFGFMSAMSEPSVSLT 211

## RESULT 6

US-09-502-984-14  
; Sequence 14, Application US/09502984  
; GENERAL INFORMATION:  
; APPLICANT: Luo, Peizhi  
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
; FILE REFERENCE: A-68126-1/RT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/502,984  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: 60/120,009  
; PRIOR FILING DATE: 1999-02-11  
; PRIOR APPLICATION NUMBER: 60/131,674  
; PRIOR FILING DATE: 1999-04-29  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 211  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-14

Query Match 97.7%; Score 1073; DB 19; Length 211;  
Best Local Similarity 96.2%; Pred. No. 1.5e-109;  
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 KESKAALLAARPEELCTERLEDVCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60  
Db 1 KESKAALLAARPEELCTERLEDVCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60  
QY 61 HQAPTAGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120  
Db 61 HQAPTAGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120  
QY 121 RLADSGHVYIRLPPPEPMTSHIRFELDISGNAGSVQVRELLEGRTCYLSNLGR 180  
Db 121 RLADSGHVYIRLPPPEPMTSHIRFELDISGNAGSVQVRELLEGRTCYLSNLGR 180  
QY 181 TRITIVARAMAEPSFGFMSAMSEPSVSLT 211  
Db 181 TRITIVARAMAEPSFGFMSAMSEPSVSLT 211

## RESULT 7

US-09-502-984-15  
; Sequence 15, Application US/09502984  
; GENERAL INFORMATION:  
; APPLICANT: Luo, Peizhi  
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
; FILE REFERENCE: A-68126-1/RT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/502,984  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: 60/120,009  
; PRIOR FILING DATE: 1999-02-11  
; PRIOR APPLICATION NUMBER: 60/131,674  
; PRIOR FILING DATE: 1999-04-29  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 15  
; LENGTH: 211  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-15

Query Match 97.7%; Score 1073; DB 19; Length 211;  
Best Local Similarity 96.2%; Pred. No. 1.5e-109;  
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 KESKAALLAARPEELCTERLEDVCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60  
Db 1 KESKAALLAARPEELCTERLEDVCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60  
QY 61 HQAPTAGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120  
Db 61 HQAPTAGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120  
QY 121 RLADSGHVYIRLPPPEPMTSHIRFELDISGNAGSVQVRELLEGRTCYLSNLGR 180  
Db 121 RLADSGHVYIRLPPPEPMTSHIRFELDISGNAGSVQVRELLEGRTCYLSNLGR 180  
QY 181 TRITIVARAMAEPSFGFMSAMSEPSVSLT 211  
Db 181 TRITIVARAMAEPSFGFMSAMSEPSVSLT 211

## RESULT 8

US-09-502-984-17  
; Sequence 17, Application US/09502984  
; GENERAL INFORMATION:  
; APPLICANT: Luo, Peizhi  
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
; FILE REFERENCE: A-68126-1/RT/RMS/RMK

```

1 CURRENT APPLICATION NUMBER: US/09/502,984
2 CURRENT FILING DATE: 2000-02-11
3 PRIOR APPLICATION NUMBER: 60/120,009
4 PRIOR FILING DATE: 1999-02-11
5 PRIOR APPLICATION NUMBER: 60/131,674
6 PRIOR FILING DATE: 1999-04-29
7 NUMBER OF SEQ ID NOS: 36
8 SOFTWARE: PatentIn Ver. 2.1
9 SEQ ID NO 7
10 LENGTH: 211
11 TYPE: PRT
12 ORGANISM: Artificial Sequence
13 FEATURE:
14 OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
15 US-09-502-984-7

```

Query Match	97.4%	Score 1070	DB 19	Length 211
Best Local Similarity	95.7%	Pred No. 3.3e-109		
Matches 202	Conservative 7	Mismatches 2	Indels 0	Gaps 0

```
QY      1 KFE$KALLLARGPEELLCTFERLEDLVCFEEEAASAGVGPNGFSFQLEDEPWKLRL 600
        |||||||:|||||||
Db       1 KFESKAALLARGPEELCTFERLEDLVCFWEAASAGVGPNFSFQLEDEPWKLRL 600
```

```

QY 61 HQAPARGAIRFWCSLPADTSSVPLELRLTAASGAPRFRHYIHINEVLLDAPGLVA 12
      |||||
Db 61 HQAPARGAIRFWCSLPADTSSVPLELRLTAASGAPRFRHYIHINEVLLDAPGLVA 12

```

```
QY      121 RLADSGHVLRWLPPETPMISHIRELDISAGNGAGSVQRVELLEGRTCVLSNLGR 180
        |||||::|||||::|:|:|||||::|:|:|||||::|:|:|||||::|:|:|||||
Db      121 RLADSGHVLRWLPPETPMISHIREVDVSAGNGAGSVQRVELLEGRTCVLSNLGR 180
```

Qy	181	TRITIAVRARMAEPSEFGGFWSAMSEPVSLLT	211
Db	181	TRYTFAVRARMAEPSEFGGFWSAMSEPVSLLT	211

```

RESULT 9
US-09-502-984-17
Sequence 17, Application US/09502984
GENERAL INFORMATION:
APPLICANT: Luo, Peizhi
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
FILE REFERENCE: A-68126-1/PT/BMS/RMK
CURRENT APPLICATION NUMBER: US/09/502,984
CURRENT FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/120,009
PRIOR FILING DATE: 1999-02-11
PRIOR APPLICATION NUMBER: 60/121,674
PRIOR FILING DATE: 1999-04-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 17
LENGTH: 211
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-17

```

Query Match	97.4%	Score 1070	DB 19	Length 211
Best Local Similarity	94.3%	Pred. No. 3.3e-109		
Matches 199	Conservative 12	Mismatches 0	Indels 0	Gaps 0

```
OY      1 KFEESAAALLAARGPEELLCTFERIEDLVCFEEEAASAGVCGPNFSFQLEDEDPKLCRL    60  
        |||||  
Db     1 KFESKAALLAARGPEELLCTFERIEDLVCMWEBAASAGVGPGNYSFSQJLEDDEPKLCRL    60
```

```
QY 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRITLTAASGAPRRHVIHINEVLLDAPGVIA 120
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:||
DB 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRITLTAASGAPRRHVIHINEVLLDAPGVIA 120
```

[illegible]

RESULT 10  
US-09-502-984-16

; sequence 16, APPLICATION 05/09302984  
; GENERAL INFORMATION:  
; GENERAL INFORMATION:

APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY

FILE REFERENCE: A-68126-1/RET/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984

CURRENT FILING DATE: 2000-02-11

; PRIOR APPLICATION NUMBER: 60/120,003  
 ; PRIOR FILING DATE: 1999-02-11

; PRIOR APPLICATION NUMBER: 60/131,674  
 ; PRIOR FILING DATE: 1999-04-29

```

; NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1

```

SEQ ID NO 16

```

; LENGTH: 211
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:

```

OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
; ITS-09-502-984-16

US-09-502-984-16

Query Match	97.1%	Score 1066	DB 19,	Length 211,
Best Local Similarly	93.8%	Pred. No. 9e-109,		
Matches 198, Conservative	12,	Mismatches	1,	Indels 0; Gaps 0;

[illegible]

```

Qy      61 HQAPARGAIREWCSEPTADTSSFVPELRRLTAASGAPRHRVHINEVLLDAPGLVA 120
        |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      61 HQAPARGAIREWCSEPTADTSSFVPELRRLTAASGAPRHRVHINEVLLDAPGIVV 120

```

```

QY 121 RLADSGHVIVIRMLPPETPMTHSHIRELDISAGNGAGSVQRVELLEGRICVLSNLRGR 180
    |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 121 RLADSGHVIVIRMLPPETPMTHSHIRELDISAGNGAGSVQRVELLEGRICVLSNLRGR 180

```

QY	181	TRITIAVRARMAEPFSGGFWMSAMSEPVSLT	211
	:	:	:
Db	181	TRITIAIRARMAEPFSGGFWMSAMSEPVSLT	211

RESULT 11  
US-09-502-984-11

```
;; Sequence 11, Application US/095029884
; GENERAL INFORMATION:
```

; APPLICANT: Luo, Peizhi  
 ; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY

FILE REFERENCE: A-68126-1/RFT/RMS/RMK

; CURRENT APPLICATION NUMBER: 05/09/5020  
; CURRENT FILING DATE: 2000-02-11

; PRIOR APPLICATION NUMBER: 60/120,009  
; PRIOR FILING DATE: 1999-02-11

PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29

NUMBER OF SEQ ID NOS: 36

```

; SOFTWARE:  H
;
; SEQ ID NO 11

```

```

; LENGTH: 211
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-11
```

```
Query Match          96.9%; Score 1064; DB 19; Length 211;
Best Local Similarity 94.3%; Pred. No. 1.5e-108;
Matches 199; Conservative 10; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
    |||
DB 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
QY 61 HOAPTARGAIFRWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120
    |||
DB 61 HOAPTARGAIFRWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120
QY 121 RLADSGHVIVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCVLSMLRGR 180
    |||
DB 121 RLADSGHVIVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCVLSMLRGR 180
QY 181 TRTTIIVARARMAEPRSGFGFWSAMSEPVSLT 211
    |||
DB 181 TRTTIIVARARMAEPRSGFGFWSAMSEPVSLT 211
```

#### RESULT 12

```
US-09-502-984-12
; Sequence 12, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RF7/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 211
; TYPE: PR7
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-12
```

```
Query Match          96.6%; Score 1061; DB 19; Length 211;
Best Local Similarity 94.3%; Pred. No. 3.2e-108;
Matches 199; Conservative 10; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
    |||
DB 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
QY 61 HOAPTARGAIFRWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120
    |||
DB 61 HOAPTARGAIFRWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120
QY 121 RLADSGHVIVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCVLSMLRGR 180
    |||
DB 121 RLADSGHVIVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCVLSMLRGR 180
QY 181 TRTTIIVARARMAEPRSGFGFWSAMSEPVSLT 211
    |||
DB 181 TRTTIIVARARMAEPRSGFGFWSAMSEPVSLT 211
```

#### RESULT 13

```
US-09-502-984-2
; Sequence 2, Application US/09502984
; GENERAL INFORMATION:
```

```
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RF7/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 211
; TYPE: PR7
; ORGANISM: Homo sapiens
US-09-502-984-2
```

```
Query Match          96.5%; Score 1060; DB 19; Length 211;
Best Local Similarity 93.8%; Pred. No. 4.1e-108;
Matches 198; Conservative 11; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
    |||
DB 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
QY 61 HOAPTARGAIFRWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120
    |||
DB 61 HOAPTARGAIFRWCSLPTADTSSFVPLELRLTAASGAPRHRVITHINEVLLDAPVGLVA 120
QY 121 RLADSGHVIVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCVLSMLRGR 180
    |||
DB 121 RLADSGHVIVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCVLSMLRGR 180
QY 181 TRTTIIVARARMAEPRSGFGFWSAMSEPVSLT 211
    |||
DB 181 TRTTIIVARARMAEPRSGFGFWSAMSEPVSLT 211
```

#### RESULT 14

```
US-09-502-984-10
; Sequence 10, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RF7/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 211
; TYPE: PR7
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-10
```

```
Query Match          96.5%; Score 1060; DB 19; Length 211;
Best Local Similarity 93.8%; Pred. No. 4.1e-108;
Matches 198; Conservative 11; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
    |||
DB 1 KFSKKAALLAARGPELLCFTERLEDVLCFFEEAASAGVGPNGFSFQLEDEPMKICRL 60
```

```
QY      61 HQAPTARGAIRFWCSLPTADTSSFFVPLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      61 HQAPTARGAIVFWCSLPTADTSSFFVPLELRYTAASGAPRFRHVIHINEVLLDAPVGLVA 120
QY      121 RLADSGHVIVRLPPETPMTSHIRFELDISGNGAGSVORVELLEGTECVLSNLRGR 180
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      121 RLADSGHVIVRLPPETPMTSHIRFELDISGNGAGSVORVELLEGTECVLSNLRGR 180
QY      181 TRITIAVARARMAEPFSGFWSAMSEPVSLLT 211
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      181 TRITIAVARARMAEPFSGFWSAMSEPVSLLT 211
```

```
RESULT 15
US-09-502-984-1
; Sequence 1, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-502-984-1
```

```
Query Match          96.5%; Score 1060; DB 19; Length 225;
Best Local Similarity 93.8%; Pred. No. 4.5e-108;
Matches 196; Conservative 11; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 KFEESKALLAARGPEELCTERLEDLVCFEEAASAGVGPGNFSFQLEDEPMKLCRL 60
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      10 KFEESKALLAARGPEELCTERLEDLVCFEEAASAGVGPGNFSFQLEDEPMKLCRL 69
QY      61 HQAPTARGAIRFWCSLPTADTSSFFVPLELRLTAASGAPRFRHVIHINEVLLDAPVGLVA 120
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      70 HQAPTARGAIVFWCSLPTADTSSFFVPLELRYTAASGAPRFRHVIHINEVLLDAPVGLVA 129
QY      121 RLADSGHVIVRLPPETPMTSHIRFELDISGNGAGSVORVELLEGTECVLSNLRGR 180
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      130 RLADSGHVIVRLPPETPMTSHIRFELDISGNGAGSVORVELLEGTECVLSNLRGR 189
QY      181 TRITIAVARARMAEPFSGFWSAMSEPVSLLT 211
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      190 TRITIAVARARMAEPFSGFWSAMSEPVSLLT 220
```

Search completed: August 28, 2002, 17:37:38  
Job time: 514 sec